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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the Application of	**JOHN CORRIE et al.**
Application No.	09/936,975
Attorney Docket No.	0380-P02671US0
Filed:	December 27, 2001
For:	1-ACYL-7-NITROINDOLINE DERIVATIVES, THEIR PREPARATION AND THEIR USE AS PHOTOCLEAVABLE PRECURSORS
Examiner:	Not Yet Assigned
Group Art Unit:	1635

CERTIFICATE OF MAILING UNDER 37 C.F.R § 1.8(a)

I hereby certify that this Correspondence is being deposited on the date identified below with the United States Postal Service as first-class mail in an envelope properly addressed to ASSISTANT COMMISSIONER FOR PATENTS, Washington, D.C. 20231.

21 June 2002
Date of Certificate

Patrick J. Hagan
Patrick J. Hagan

Assistant Commissioner for Patents
Washington, D.C. 20231

INFORMATION DISCLOSURE STATEMENT UNDER 37 C.F.R. § 1.97

In compliance with the duty of disclosure set forth in 37 C.F.R. § 1.56, Applicants are submitting herewith a Form PTO-1449 and a copy of the references listed thereon. This Information Disclosure Statement is being filed more than three months after the filing date, but before receipt of the first Official Action on the merits. Thus, it is believed by the undersigned attorney that no fee is required under 37 C.F.R. §1.97(b).

In the event that a fee is required, the Commissioner is authorized to charge Deposit Account No. 04-1406 of the undersigned attorneys. A duplicate copy of this sheet is enclosed.

In the opinion of the undersigned, the references submitted herewith are the

most pertinent of which the undersigned is aware. However, no representation is made or intended that more pertinent references do not exist.

This submission is not an admission that the references listed on the attached Form PTO-1449 constitute prior art against the claims of this application.

The Examiner is respectfully requested to confirm receipt and consideration of the cited references by initialing and returning a copy of the attached Form PTO-1449 in accordance with MPEP §609.

Early and favorable consideration of this application is respectfully requested.

Respectfully submitted,

DANN, DORFMAN, HERRELL & SKILLMAN
A Professional Corporation
Attorneys for Applicant(s)

By Patrick J. Hagan

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Enclosures - Form PTO-1449
Copies of references listed on PTO - 1449

INFORMATION DISCLOSURE STATEMENT	Complete if known
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SHEET 2 OF 4	Attorney Docket Number: 0380-P02671US0

	C8	KAPLAN, J.H., "Photochemical Manipulation of Divalent Cation Levels"; Annu. Rev. Physiol. 52: 897-914 (1990)
	C9	PAPAGEORGIOU, G. et al., "Synthetic and Photochemical Studies of *N*-Arenesulfonyl Amino Acids"; Tetrahedron 55: 237-254 (1999)
	C10	GIVENS, R.S. et al., "New Photoactivated Protecting Groups. 7. *p*-Hydroxyphenacyl: A Phototrigger for Excitatory Amino Acids and Peptides"; J. Am. Chem. Soc. 119: 8369-8370 (1997)
	C11	FURUTA, T. et al., "Brominated 7-hydroxycoumarin-4-ylmethyls: Photolabile protecting groups with biologically useful cross-sections for two photon photolysis"; Proc. Natl. Acad. Sci. USA 96: 1193-1200 (1999)
	C12	PAPAGEORGIOU, G. et al., "Synthesis and Properties of Carbamoyl Derivatives of Photolabile Benzoins"; Tetrahedron 53(11): 3917-3932 (1997)
	C13	AMIT, B. et al., "Light-Sensitive Amides. The Photosolvolysis of Substituted 1-Acyl-7-nitroindolines"; J. Am. Chem. Soc. 98: 843-844 (1976)
	C14	McKILLOP, A. et al., "Thallium in Organic Synthesis. XXVII. A Simple One-Step Conversion of Acetophenones into Methyl Phenylacetates Using Thallium(III) Nitrate (TTN)"; J. Am. Chem. Soc. 93: 4919-4920 (1971)
	C15	MORTENSEN, M.B. et al., "Improved Preparation of Some Nitroindolines"; Org. Prep. Proced. Int. (OPPI Briefs) 28(1): 123-125 (1996)
	C16	CARPINO, L.A. et al., "Peptide Synthesis via Amino Acid Halides"; Acc. Chem. Res. 29(6): 268-274 (1996)
	C17	GALL, W.G. et al., "Synthesis of 7-Substituted Indoline Derivatives"; J. Org. Chem. 20: 1538-1544 (1955)
	C18	ZUMAN, P. et al., "Addition, Reduction, and Oxidation Reactions of Nitrosobenzene"; Chem. Rev., 94: 1621-1641 (1994)
	C19	BARTH, A. et al., "Time-Resolved Infrared Spectoscopy of Intermediates and Products from Photolysis of 1-(2-Nitrophenyl)ethyl Phosphates: Reaction of the 2-Nitrosoacetophenone Byproduct with Thiols"; J. Am. Chem. Soc., 119: 4149-4159 (1997)
	C20	WAN, P. et al., "Photoredox chemistry of nitrobenzyl alcohols in aqueous solution. Acid and base catalysis of reaction"; Can. J. Chem., 64: 2076-2086 (1986)
	C21	WAN, P. et al. "Structure and Mechanism in the Photo-Retro-Aldol Type Reactions of Nitrobenzyl Derivatives. Photochemical Heterolytic Cleavage of C-C Bonds"; J. Am. Chem. Soc., 110(13): 4336-4345 (1988)

EXAMINER'S SIGNATURE		DATE CONSIDERED	

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SHEET 1 OF 4

UNITED STATES PATENT DOCUMENTS

EXAMINER'S INITIALS	CITE NO.	PATENT NUMBER	ISSUE DATE MM-DD-YYYY	FIRST NAMED INVENTOR
	A1	4,210,590	07/01/1980	Bruce E. Maryanoff et al.
	A2	6,268,389 B1	07/31/2001	Franz Esser et al.

FOREIGN PATENT DOCUMENTS

EXAMINER'S INITIALS	CITE NO.	DOCUMENT NUMBER	COUNTRY OR REGION	DATE OF PUBLICATION MM-DD-YYYY	FIRST NAMED INVENTOR OR APPLICANT
	B1	WO 86/00527 V	WO	01/30/1986	DANA-FARBER CANCER INSTITUTE, INC.

OTHER PRIOR ART - NON-PATENT DOCUMENTS

EXAMINER'S INITIALS	CITE NO.	Include name of the author (in Capital Letters), title of the article (when appropriate), title of the item(book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published
	C1	GOISSIS, G. et al., "Synthesis of Protected Peptide Acids and Esters by Photosolvolysis of 1-peptidyl-5-bromo-7-nitroindolines"; Proc. Am. Peptide Symp., 5: 559-61 (1977)
	C2	Yeda Research and Development Co., Ltd., "Reversible blocking of acyl groups during organic synthesis using 7-nitroindoline derivatives as blocking agents"; Chem. Abstracts, Ab. No. 181004x, 92(21): 637 (1980)
	C3	PASS, S. et al., "Racemization-Free Photochemical Coupling of Peptide Segments"; J. Am. Chem. Soc. 103: 7674-7675 (1981)
	C4	ADAMS, S.R. et al., "Biologically Useful Chelators That Take Up Ca^{2+} upon Illumination"; J. Am. Chem. Soc. 111: 7957-7968 (1989)
	C5	PAPAGEORGIOU, G. et al., "Photorelease of Carboxylic Acids from 1-Acyl-7-nitroindolines in Aqueous Solution: Rapid and Efficient Photorelease of L-Glutamate"; J. Am. Chem. Soc. 121: 6503-6504 (1999)
	C6	CORRIE, J.E.T. et al., "Caged Nucleotides and Neurotransmitters"; Bioorganic Phytochemistry, Volume 2: Biological Applications of Photochemical Switches; Morrison, H. (Ed.), Chapter 5: 243-305 (John Wiley & Sons, 1993)
	C7	ADAMS, S.R. et al., "Controlling Cell Chemistry with Caged Compounds"; Annu. Rev. Physiol. 55: 755-784 (1993)

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	C36	KRUSE, L.I., "Synthesis of 4-Substituted Indoles from o-Nitrotoluenes"; Heterocycles, 16(7): 1119-1124 (1981)
	C37	CORRIE, J.E.T. et al., "Synthesis and evaluation of photolabile sulfonamides as potential reagents for rapid photorelease of neuroactive amines"; J. Chem. Soc., Perkin Trans. I, 1583-1592 (1996)
	C38	PAPAGEORGIOU, G. et al., "Effects of Aromatic Substituents on the Photocleavage of 1-Acyl-7-nitroindolines"; Tetrahedron 56: 8197-8205 (2000)

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	C22	WALKER, J.W., et al. "Photolabile 1-(2-Nitrophenyl)ethyl Phosphate Esters of Adenine Nucleotide Analogues. Synthesis and Mechanism of Photolysis"; J. Am. Chem. Soc., 110(21): 7170-7177 (1988)
	C23	AMIT, B. et al., "Light-sensitive Amides. Photocleavage of *N*-Acyl-1,2,3.4-tetrahydro-8-nitroquinolines to give Free Carboxylic Acids"; J. Chem. Soc., Perkin Tran. I, 57-63 (1976)
	C24	KAPLAN, J.H. et al., "Rapid Photolytic Release of Adenosine 5′-Triphosphate from a Protected Analogue: Utilization by the Na:K Pump of Human Red Blood Cell Ghosts"; Biochemistry, 17(10): 1929-1935 (1978)
	C25	HAMILL, O.P. et al., "Improved Patch-Clamp Techniques for High-Resolution Current Recording from Cells and Cell-Free Membrane Patches"; Pflügers Arch., 391: 85-100 (1981)
	C26	RAPP, G. et al., "A low cost high intensity flash device for photolysis experiments"; Pflügers Arch., 411: 200-203 (1988)
	C27	KHODAKHAH, K. et al., "Fast activation and inactivation of inositol trisphosphate-evoked Ca^{2+} release in rat cerebellar Purkinje neurones"; J. Physiol., 487.2: 343-358 (1995)
	C28	CRABB, T.A. et al., "Microbiological Transformations, Part 6. Microbiological Transformations of Acyl Derivatives of Indoline, 1,2,3,4-Tetrahydroquinoline, 1,2,3,4-Tetrahydroisoquinoline and 2,3,4,5-Tetrahydro-1*H*-1-benzazepine with the Fungus *Cunninghamella elegans*"; J. Chem. Soc. Perkin Trans. I, 1381-1385 (1985)
	C29	MONRO, A.M. et al., "The Conformation of the Amide Group in *N*-Acyl-indolines and -1,2,3,4-tetrahydroquinolines"; J. Chem. Soc. (B), 1227-1230 (1971)
	C30	TERENTEV, A.P. et al., "Introduction of Substituents in the Benzene Ring of Indole"; J. Gen. Chem. USSR, 29: 2835-2841 (1959)
	C31	CORRIE, J.E.T. et al. "Synthesis and Absolute Stereochemistry of the Two Diastereoisomers of P^3-1-(2-Nitrophenyl)ethyl Adenosine Triphosphate ('Caged' ATP)"; J. Chem. Soc. Perkin Trans. I, 1015-1019 (1992)
	C32	KAWASE, M. et al., "Silica Gel Assisted Reductive Cyclization of 2-Nitro-â-piperidinostyrenes, Derived from 2-Nitrotoluenes, to Indoles"; J. Heterocyclic Chem., 24: 1499-1501 (1987)
	C33	BUCHANAN, J.G. et al., "Synthesis of the Indole Nucleoside Antibiotics Neosidomycin and SF-2140"; J. Chem. Soc. Perkin Trans. I, 1417-1426 (1994)
	C34	GANGJEE, A. et al., "Synthesis and Biological Evaluation of Nonclassical 2,4-Diamino-5-methylpyrido[2,3-*d*]pyrimidines with Novel Slide Chain Substituents as Potential Inhibitors of Dihydrofolate Reductases"; J. Med. Chem., 40: 479-485 (1997)
	C35	WIELAND, T. et al., "Synthese einiger Methoxy-oxindole und -indoline"; Chem. Ber., 96: 253-259 (1963) [English translation of Abstract attached]

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